Social Engineering Attacks Inference Rules

Tailgating

⬜
attack(tailgating,r1,A2,a,l)←play(A2,r2)∧play(attacker,r1)∧Non_mandatory_C_p(r2,
C,a)∧(ha_security_awareness(A2,h)∨ha_security_awareness(A2,m))∧(scene(r2,h)∨s
cene(r2,l))

⬜
attack(tailgating,r1,A2,a,m)←play(A2,r2)∧play(attacker,r1)∧Non_mandatory_C_p(r2,
C,a)∧ha_security_awareness(A2,l)∧(scene(r2,h)∨scene(r2,l))

Dumpster Diving

⬜
attack(dumpster_diving,r1,A2,a,l)←Non_mandatory_C_p(r2,C,a)∧play(A2,r2)∧play
(attacker,r1)∧(scene(r2,h)∨scene(r2,l))∧(ha_security_awareness(A2,h)∨ha_security_
awareness(A2,m))

⬜
attack(dumpster_diving,r1,A2,a,l)←Non_mandatory_C_p(r2,C,a)∧play(A2,r2)∧play
(attacker,r1)∧scene(r2,h)∧ha_security_awareness(A2,l)

⬜
attack(dumpster_diving,r1,A2,a,m)←Non_mandatory_C_p(r2,C,a)∧play(A2,r2)∧pla
y(attacker,r1)∧scene(r2,l)∧ha_security_awareness(A2,l)

Intimidation

⬜
attack(intimidation,r1,A2,a,l)←play(A2,r2)∧play(attacker,r1)∧(scene(r2,h)∨scene(R
2,l))∧Non_mandatory_Sh_p(r2,Sh,a)∧mandatory_S_n(r1,S,a)∧subordinate(r1,r2)

∧(ha_security_awareness(A2,h)∨ha_security_awareness(A2,m)∨ha_security_awarenes
s(A2,l))

⬜
attack(intimidation,r1,A2,a,l)←play(A2,r2)∧play(attacker,r1)∧(scene(r2,h)∨scene(R
2,l))∧Non_mandatory_Sh_p(r2,Sh,a)∧mandatory_disqualification_S_n(r1,S,a)∧subo
rdinate(r1,r2)∧(ha_security_awareness(A2,h)∨ha_security_awareness(A2,m))

⬜
attack(intimidation,r1,A2,a,m)←play(A2,r2)∧play(attacker,r1)∧(scene(r2,h)∨scene(
r2,l))∧Non_mandatory_Sh_p(r2,Sh,a)∧mandatory_disqualification_S_n(r1,S,a)∧su
bordinate(r1,r2)∧ha_security_awareness(A2,l)

⬜
attack(intimidation,r1,A2,a,l)←play(A2,r2)∧play(attacker,r1)∧(scene(r2,h)∨scene(R
2,l))∧Non_mandatory_Sh_p(r2,Sh,a)∧mandatory_S_n(r1,S,a)∧authority(r1,r2)∧(
ha_security_awareness(A2,h)∨ha_security_awareness(A2,m)∨ha_security_awaren
ess(A
2,l))

⬜
attack(intimidation,r1,A2,a,l)←play(A2,r2)∧play(attacker,r1)∧(scene(r2,h)∨scene(R
2,l))∧Non_mandatory_Sh_p(r2,Sh,a)∧mandatory_disqualification_S_n(r1,S,a)∧auth
ority(r1,r2)∧(ha_security_awareness(A2,h)∨ha_security_awareness(A2,m))

⬜
attack(intimidation,r1,A2,a,l)←play(A2,r2)∧play(attacker,r1)∧scene(r2,h)∧Non_ma
ndatory_Sh_p(r2,Sh,a)∧mandatory_disqualification_S_n(r1,S,a)∧authority(r1,r2)∧
ha_security_awareness(A2,l)

⬜
attack(intimidation,r1,A2,a,l)←play(A2,r2)∧play(attacker,r1)∧scene(r2,l)∧Non_man
datory_Sh_p(r2,Sh,a)∧mandatory_disqualification_S_n(r1,S,a)∧authority(r1,r2)∧ha
_security_awareness(A2,l)

⬜
attack(intimidation,r1,A2,a,m)←play(A2,r2)∧play(attacker,r1)∧scene(r2,l)∧Non_ma
ndatory_Sh_p(r2,Sh,a)∧mandatory_disqualification_S_n(r1,S,a)∧authority(r1,r2)∧
ha_security_awareness(A2,l)

⬜
attack(intimidation,r1,A2,a,l)←play(A2,r2)∧play(attacker,r1)∧(scene(r2,h)∨scene(R2,l))∧Non_mandatory_C_p(r2,C,a)∧mandatory_S_n(r1,S,a)∧authority(r1,r2)∧(has_security_awareness(A2,h)∨ha_security_awareness(A2,m)∨ha_security_awareness(A2,l)
)

⬜
attack(intimidation,r1,A2,a,l)←play(A2,r2)∧play(attacker,r1)∧(scene(r2,h)∨scene(R2,l))∧Non_mandatory_C_p(r2,C,a)∧mandatory_disqualification_S_n(r1,S,a)∧author ity(r1,r2)∧(ha_security_awareness(A2,h)∨ha_security_awareness(A2,m))

⬜
attack(intimidation,r1,A2,a,m)←play(A2,r2)∧play(attacker,r1)∧(scene(r2,h)∨scene(r2,l))∧Non_mandatory_C_p(r2,C,a)∧mandatory_disqualification_S_n(r1,S,a)∧authority(r1,r2)∧ha_security_awareness(A2,l)

⬜
attack(intimidation,r1,A2,a,l)←play(A2,r2)∧play(attacker,r1)∧(scene(r2,h)∨scene(R2,l))∧Non_mandatory_C_p(r2,C,a)∧mandatory_S_n(r1,S,a)∧subordinate(r1,r2)∧(ha_security_awareness(A2,h)∨ha_security_awareness(A2,m))

⬜
attack(intimidation,r1,A2,a,l)←play(A2,r2)∧play(attacker,r1)∧scene(r2,h)∧Non_mandatory_C_p(r2,C,a)∧mandatory_S_n(r1,S,a)∧subordinate(r1,r2)∧ha_security_awareness(A2,l)

⬜
attack(intimidation,r1,A2,a,m)←play(A2,r2)∧play(attacker,r1)∧scene(r2,l)∧Non_mandatory_C_p(r2,C,a)∧mandatory_S_n(r1,S,a)∧subordinate(r1,r2)∧ha_security_awareness(A2,l)

⬜
attack(intimidation,r1,A2,a,l)←play(A2,r2)∧play(attacker,r1)∧(scene(r2,h)∨scene(R2,l))∧Non_mandatory_C_p(r2,C,a)∧mandatory_disqualification_S_n(r1,S,a)∧subordinate(r1,r2)∧(ha_security_awareness(A2,h)∨ha_security_awareness(A2,m))

⬜
attack(intimidation,r1,A2,a,m)←play(A2,r2)∧play(attacker,r1)∧(scene(r2,h)∨scene(r2,l))∧Non_mandatory_C_p(r2,C,a)∧mandatory_disqualification_S_n(r1,S,a)∧subordinate(r1,r2)∧ha_security_awareness(A2,l)

Incentive

☐
attack(incentive,r1,A2,a,l)←play(A2,r2)∧play(attacker,r1)∧(scene(r2,h)∨scene(r2,l))
∧mandatory_S_n(r1,S,a,Y)∧Non_mandatory_Sh_p(r2,Sh,a)∧(ha_security_awareness(A2,h)∨ha_security_awareness(A2,m)∨ha_security_awareness(A2,l))

☐
attack(incentive,r1,A2,a,l)←play(A2,r2)∧play(attacker,r1)∧(scene(r2,h)∨scene(r2,l))
∧mandatory_disqualification_S_n(r1,S,a)∧Non_mandatory_Sh_p(r2,Sh,a)∧(ha_security_awareness(A2,h)∨ha_security_awareness(A2,m))

☐
attack(incentive,r1,A2,a,l)←play(A2,r2)∧play(attacker,r1)∧scene(r2,h)∧mandatory_disqualification_S_n(r1,S,a)∧Non_mandatory_Sh_p(r2,Sh,a)∧ha_security_awareness(A2,l)

☐
attack(incentive,r1,A2,a,m)←play(A2,r2)∧play(attacker,r1)∧scene(r2,l)∧mandatory_disqualification_S_n(r1,S,a)∧Non_mandatory_Sh_p(r2,Sh,a)∧ha_security_awareness(A2,l)

☐
attack(incentive,r1,A2,a,l)←play(A2,r2)∧play(attacker,r1)∧(scene(r2,h)∨scene(r2,l))
∧mandatory_S_n(r1,S,a,Y)∧Non_mandatory_C_p(r2,C,a)∧(ha_security_awareness(A2,h)∨ha_security_awareness(A2,m))

☐
attack(incentive,r1,A2,a,l)←play(A2,r2)∧play(attacker,r1)∧scene(r2,h)∧mandatory_S_n(r1,S,a,Y)∧Non_mandatory_C_p(r2,C,a)∧ha_security_awareness(A2,l)

☐
attack(incentive,r1,A2,a,m)←play(A2,r2)∧play(attacker,r1)∧scene(r2,h)∧mandatory_S_n(r1,S,a,Y)∧Non_mandatory_C_p(r2,C,a)∧ha_security_awareness(A2,l)

☐
attack(incentive,r1,A2,a,l)←play(A2,r2)∧play(attacker,r1)∧(scene(r2,h)∨scene(r2,l))
∧mandatory_disqualification_S_n(r1,S,a)∧Non_mandatory_C_p(r2,C,a)∧(ha_security_awareness(A2,h)∨ha_security_awareness(A2,m))

⬜
attack(incentive,r1,A2,a,m)←play(A2,r2)∧play(attacker,r1)∧(scene(r2,h)∨scene(r2,l)
)∧mandatory_disqualification_S_n(r1,S,a,Y)∧Non_mandatory_C_p(r2,C,a)∧ha_security_awareness(A2,l)

Impersonation

⬜
attack(impersonation,r1,A2,a,l)←play(A2,r2)∧play(attacker,r1)∧(scene(r2,h)∨scene(r2,l))∧mandatory_S_p(r1,S,a,Y)∧mandatory_S_p(r2,S,a,Y)∧Non_mandatory_C_p(r2,C,T)∧need(T,a)∧(ha_security_awareness(A2,h)∨ha_security_awareness(A2,m)∨ha_security_awareness(A2,l))

⬜
attack(impersonation,r1,A2,a,l)←play(A2,r2)∧play(attacker,r1)∧(scene(r2,h)∨scene(r2,l))∧mandatory_S_p(r1,S,a,Y)∧mandatory_disqualification_S_p(r2,S,a)∧Non_mandatory_C_p(r2,C,T)∧need(T,a)∧(ha_security_awareness(A2,h)∨ha_security_awareness(A2,m))

⬜
attack(impersonation,r1,A2,a,l)←play(A2,r2)∧play(attacker,r1)∧scene(r2,h)∧mandatory_disqualification_S_p(r1,S,a)∧mandatory_S_p(r2,S,a,Y)∧Non_mandatory_C_p(R2,C,T)∧need(T,a)∧ha_security_awareness(A2,l)

⬜
attack(impersonation,r1,A2,a,m)←play(A2,r2)∧play(attacker,r1)∧scene(r2,l)∧mandatory_disqualification_S_p(r1,S,a)∧mandatory_S_p(r2,S,a,Y)∧Non_mandatory_C_p(r2,C,T)∧need(T,a)∧ha_security_awareness(A2,l)

⬜
attack(impersonation,r1,A2,a,l)←play(A2,r2)∧play(attacker,r1)∧(scene(r2,h)∨scene(r2,l))∧mandatory_S_p(r1,S,a,Y)∧mandatory_disqualification_S_p(r2,S,a)∧Non_mandatory_C_p(r2,C,T)∧need(T,a)∧(ha_security_awareness(A2,h)∨ha_security_awareness(A2,m))

⬜
attack(impersonation,r1,A2,a,l)←play(A2,r2)∧play(attacker,r1)∧scene(r2,h)∧mandat

ory_S_p(r1,S,a,Y)∧mandatory_disqualification_S_p(r2,S,a)∧Non_mandatory_C_p(R

2,C,T)∧need(T,a)∧ha_security_awareness(A2,l)

☐

attack(impersonation,r1,A2,a,m)←play(A2,r2)∧play(attacker,r1)∧scene(r2,l)∧manda

tory_S_p(r1,S,a,Y)∧mandatory_disqualification_S_p(r2,S,a)∧Non_mandatory_C_p(

r2,C,T)∧need(T,a)∧ha_security_awareness(A2,l)

☐

attack(impersonation,r1,A2,a,l)←play(A2,r2)∧play(attacker,r1)∧(scene(r2,h)∨scene(

r2,l))∧mandatory_disqualification_S_p(r1,S,a)∧mandatory_disqualification_S_p(r2,S,

a)∧Non_mandatory_C_p(r2,C,T)∧need(T,a)∧(ha_security_awareness(A2,h)∨ha_s

ecurity_awareness(A2,m))

☐

attack(impersonation,r1,A2,a,m)←play(A2,r2)∧play(attacker,r1)∧(scene(r2,h)∨scen

e(r2,l))∧mandatory_disqualification_S_p(r1,S,a)∧mandatory_disqualification_S_p(r2,

S,a)∧Non_mandatory_C_p(r2,C,T)∧need(T,a)∧ha_security_awareness(A2,l)

☐

attack(impersonation,r1,A2,a,m)←play(A2,r2)∧play(attacker,r1)∧scene(r2,l)∧manda

tory_disqualification_S_p(r1,S,a)∧mandatory_disqualification_S_p(r2,S,a)∧Non_ma

ndatory_Ma_p(r2,Ma,T)∧need(T,a)∧ha_security_awareness(A2,l)

Responsibility

☐

attack(responsibility,r1,A2,a,l)←play(A2,r2)∧play(attacker,r1)∧(scene(r2,h)∨scene(

r2,l))∧mandatory_S_n(r1,S,a,Y)∧mandatory_S_p(r2,S,a,Y)∧Non_mandatory_Sh_p

(r2,Sh,T)∧authority(r1,r2)∧generate(T,a)∧(ha_security_awareness(A2,h)∨ha_secu

rity_awareness(A2,m)∨ha_security_awareness(A2,l))

☐

attack(responsibility,r1,A2,a,l)←play(A2,r2)∧play(attacker,r1)∧(scene(r2,h)∨scene(

r2,l))∧mandatory_disqualification_S_n(r1,S,a)∧mandatory_S_p(r2,S,a,Y)∧Non_ma

ndatory_Sh_p(r2,Sh,T)∧authority(r1,r2)∧generate(T,a)∧(ha_security_awareness(A2,

h)∨ha_security_awareness(A2,m)∨ha_security_awareness(A2,l))

☐

attack(responsibility,r1,A2,a,l)←play(A2,r2)∧play(attacker,r1)∧(scene(r2,h)∨scene(
r2,l))∧mandatory_S_n(r1,S,a,Y)∧mandatory_disqualification_S_p(r2,S,a)∧Non_ma
ndatory_Sh_p(r2,Sh,T)∧authority(r1,r2)∧generate(T,a)∧(ha_security_awareness(
A2,
h)∨ha_security_awareness(A2,m)∨ha_security_awareness(A2,l))

☐

attack(responsibility,r1,A2,a,l)←play(A2,r2)∧play(attacker,r1)∧(scene(r2,h)∨scene(
r2,l))∧mandatory_disqualification_S_n(r1,S,a)∧mandatory_disqualification_S_p(r2
,S,
a)∧Non_mandatory_Sh_p(r2,Sh,T)∧authority(r1,r2)∧generate(T,a)∧(ha_security_
awareness(A2,h)∨ha_security_awareness(A2,m))

☐

attack(responsibility,r1,A2,a,l)←play(A2,r2)∧play(attacker,r1)∧scene(r2,h)∧mandat
ory_disqualification_S_n(r1,S,a)∧mandatory_disqualification_S_p(r2,S,a)∧Non_man
datory_Sh_p(r2,Sh,T)∧authority(r1,r2)∧generate(T,a)∧ha_security_awareness(A2
,l)

☐

attack(responsibility,r1,A2,a,m)←play(A2,r2)∧play(attacker,r1)∧scene(r2,l)∧mandat
ory_disqualification_S_n(r1,S,a)∧mandatory_disqualification_S_p(r2,S,a)∧Non_man
datory_Sh_p(r2,Sh,T)∧authority(r1,r2)∧generate(T,a)∧ha_security_awareness(A2
,l)

☐

attack(responsibility,r1,A2,a,l)←play(A2,r2)∧play(attacker,r1)∧(scene(r2,h)∨scene(
r2,l))∧mandatory_S_n(r1,S,a,Y)∧mandatory_S_p(r2,S,a,Y)∧Non_mandatory_Sh_p
(r2,Sh,T)∧subordinate(r1,r2)∧generate(T,a)∧(ha_security_awareness(A2,h)∨ha_se
curity_awareness(A2,m)∨ha_security_awareness(A2,l))

☐

attack(responsibility,r1,A2,a,l)←play(A2,r2)∧play(attacker,r1)∧(scene(r2,h)∨scene(
r2,l))∧mandatory_disqualification_S_n(r1,S,a)∧mandatory_S_p(r2,S,a,Y)∧Non_ma
ndatory_Sh_p(r2,Sh,T)∧subordinate(r1,r2)∧generate(T,a)∧(ha_security_awarenes
s(
A2,h)∨ha_security_awareness(A2,m))

⬜
attack(responsibility,r1,A2,a,l)←play(A2,r2)∧play(attacker,r1)∧scene(r2,h)∧mandat

ory_disqualification_S_n(r1,S,a)∧mandatory_S_p(r2,S,a,Y)∧Non_mandatory_Sh_p(

r2,Sh,T)∧subordinate(r1,r2)∧generate(T,a)∧ha_security_awareness(A2,l)

⬜
attack(responsibility,r1,A2,a,m)←play(A2,r2)∧play(attacker,r1)∧scene(r2,l)∧mandat

ory_disqualification_S_n(r1,S,a)∧mandatory_S_p(r2,S,a,Y)∧Non_mandatory_Sh_p(

r2,Sh,T)∧subordinate(r1,r2)∧generate(T,a)∧ha_security_awareness(A2,l)

⬜
attack(responsibility,r1,A2,a,l)←play(A2,r2)∧play(attacker,r1)∧(scene(r2,h)∨scene(

r2,l))∧mandatory_S_n(r1,S,a,Y)∧mandatory_disqualification_S_p(r2,S,a)∧Non_ma

ndatory_Sh_p(r2,Sh,T)∧subordinate(r1,r2)∧generate(T,a)∧(ha_security_awareness(

A2,h)∨ha_security_awareness(A2,m))

⬜
attack(responsibility,r1,A2,a,l)←play(A2,r2)∧play(attacker,r1)∧scene(r2,h)∧mandat

ory_S_n(r1,S,a,Y)∧mandatory_disqualification_S_p(r2,S,a)∧Non_mandatory_Sh_p(

r2,Sh,T)∧subordinate(r1,r2)∧generate(T,a)∧ha_security_awareness(A2,l)

⬜
attack(responsibility,r1,A2,a,m)←play(A2,r2)∧play(attacker,r1)∧scene(r2,l)∧mandat

ory_S_n(r1,S,a,Y)∧mandatory_disqualification_S_p(r2,S,a)∧Non_mandatory_Sh_p(

r2,Sh,T)∧subordinate(r1,r2)∧generate(T,a)∧ha_security_awareness(A2,l)

⬜
attack(responsibility,r1,A2,a,l)←play(A2,r2)∧play(attacker,r1)∧(scene(r2,h)∨scene(

r2,l))∧mandatory_disqualification_S_n(r1,S,a)∧mandatory_disqualification_S_p(r2,S,

a)∧Non_mandatory_Sh_p(r2,Sh,T)∧subordinate(r1,r2)∧generate(T,a)∧(ha_security_awareness(A2,h)∨ha_security_awareness(A2,m))

⬜
attack(responsibility,r1,A2,a,m)←play(A2,r2)∧play(attacker,r1)∧(scene(r2,h)∨scene

(r2,l))∧mandatory_disqualification_S_n(r1,S,a)∧mandatory_disqualification_S_p(r2,S,a)∧Non_mandatory_Sh_p(r2,Sh,T)∧subordinate(r1,r2)∧generate(T,a)∧ha_securit

urit

y_awareness(A2,l)